

Sand Management Options

Sand nourishment can be used to increase the protective buffer of the beach and sand dunes. Existing coastal sand can be moved around or sand can be brought into the coastal environment from an external source such as a sand quarry. Sand placed on the beach or added to sand dunes is then moved and shaped by natural coastal processes.

The City of Wanneroo has extensively utilised sand nourishment along its coastline to help manage coastal erosion, particularly at Quinns Beach where it has been used in conjunction with groynes to manage long term coastal erosion issues.



Sand nourishment increases the protective buffer provided by the beach and sand dunes while increasing beach amenity through providing a wider beach. However, sand is very mobile and can be rapidly eroded under extreme metocean conditions.